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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/469,726	12/21/1999	XIN WANG	D/99164	5313

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EXAMINER

HA, LEYNNA A

ART UNIT PAPER NUMBER

2135

DATE MAILED: 05/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/469,726

Applicant(s)

WANG, XIN

Examiner

LEYNNA T. HA

Art Unit

2135

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 January 2005.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____.

DETAILED ACTION

1. Claims 1-8 have been re-examined which includes amended claims 1, 3, 5, 7, and 8 and Applicant's attorney requested for an Examiner's Amendment for claim 1.

Claims 1-8 remains rejected with new prior arts.

2. This is a Final rejection necessitated by new grounds of rejection.

EXAMINER'S AMENDMENT

3. **An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.**

Authorization for this examiner's amendment was given in a personal interview with Mr. Villamar on February 17, 2005.

The application has been amended as follows:

As per claim 1: disclose a method for encrypting an original document for distribution to a selected recipient chosen from a plurality of possible recipients, comprising the steps of:

generating a session key based on a random number maintained by only the owner of the original document;

encrypting the original document with the session key to create an encrypted document;

generating a proxy key based on a public key corresponding to the selected recipient; and

transforming the encrypted document with a proxy key to create a transformed message document.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wright, et al. (US 6,084,969) in view of Ellison (US 6,073,237).

As per claim 1:

Wright, et al. disclose a method for encrypting an original document for distribution to a selected recipient chosen from a plurality of possible recipients, comprising the steps of:

generating a session key based on a random number [col.11, lines 46-50] privately maintained by only the owner of the original document; [col.5, lines 2-4 and col.7, lines 10-11]

encrypting the original document with the session key to create an encrypted document; [col.5, lines 21-22 and col.7, lines 12-13]

generating a proxy key based on a public key [col.10, lines 26-28 and col.11, line 11] corresponding to the selected recipient; and [col.11, lines 65-67 and col.14, lines 35-36]

transforming the encrypted document with a proxy key to create a transformed message document. [col.12, lines 55-56 and col.14, lines 65-67]

It is obvious that Wright disclose the session key is maintained by “only” the owner of the original document (see Wright on col.3, line 51 and col.9, lines 51-52). However, Wright did not fully disclose the element “only” by the owner.

Ellison does fully disclose the private key is known only to the user (see Ellison on col.1, lines 20-26). Therefore it is disclosed by Wright that the private or session key is known and maintained by only the owner in order to secure the transactions of the user as taught by Ellison.

As per claim 2: See Wright on col.14, lines 65-67; discusses transforming the transformed document to the selected recipient.

As per claim 3: See Wright on col.12, lines 5-1 and col.14, lines 41-42; discusses recovering the session key from the transformed document and decrypting the transformed document with the session key to recover the original document.

As per claim 4: See Wright on col.13, line 51; discusses applying the private key corresponding to the selected recipient.

As per claim 5: See Wright on col.5, lines 45-56; discusses an encryption step is a combination of a symmetric private key encryption scheme and an asymmetric public key encryption scheme.

As per claim 6: See Wright on col.5, lines 45-56; discusses the asymmetric public key encryption scheme is based on the ElGamal encryption scheme.

As per claim 7: See Wright on col.7, lines 3-5 and col.11, lines 10-11; discusses the encrypted document comprises a first portion representative of the original document encrypted via the symmetric private key encryption scheme using the session key, and a second portion representative of the session key encrypted using an owner's private key according to the asymmetric public key encryption scheme (**col.7, lines 20-21**).

As per claim 8:

Wright discloses the original document is distributed to the selected recipient through at least one additional intermediate grantor by repeating the following steps for each additional intermediate grantor:

generating a new proxy key based on the intermediate grantor's public key; and **[col.14, lines 65-67]**

transforming the encrypted document with the new proxy key to create a transformed document customized for the intermediate grantor. **[col.13, lines 50-51]**

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the


statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LEYNNA T. HA whose telephone number is (571) 272-3851. The examiner can normally be reached on Monday - Thursday (7:00 - 5:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LHa


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